Subject: MAE101

Number of question: 30

**Multiple choice question:**

|  |  |
| --- | --- |
| QN=1 | Deciding how much testing is enough should take into account: i. Level of Risk including Technical and Business product and project risk ii. Project constraints such as time and budget iii. Size of Testing Team iv. Size of the Development Team |
| a. | i,ii,iii are true and iv is false |
| b. | i,,iv are true and ii is false |
| c. | i,ii are true and iii,iv are false |
| d. | ii,iii,iv are true and i is false |
| e. |  |
| f. |  |
| ANSWER: | C |
| MARK: | 1 |
| UNIT: | 1 |
| MIX CHOICES: | no |

|  |  |
| --- | --- |
| QN=2 | Test planning has which of the following major tasks? i. Determining the scope and risks, and identifying the objectives of testing. ii. Determining the test approach (techniques, test items, coverage, identifying and interfacing the teams involved in testing, testware) iii. Reviewing the Test Basis (such as requirements, architecture, design, interface) iv. Determining the exit criteria. |
| a. | i,ii,iv are true and iii is false |
| b. | i,,iv are true and ii is false |
| c. | i,ii are true and iii,iv are false |
| d. | ii,iii,iv are true and i is false |
| e. |  |
| f. |  |
| ANSWER: | A |
| MARK: | 1 |
| UNIT: | 11 |
| MIX CHOICES: | no |

|  |  |
| --- | --- |
| QN=3 | Evaluating testability of the requirements and system are a part of which phase: |
| a. | Test Analysis and Design |
| b. | Test Planning and control |
| c. | Test Implementation and execution |
| d. | Evaluating exit criteria and reporting |
| e. |  |
| f. |  |
| ANSWER: | A |
| MARK: | 1.0 |
| UNIT: | 1 |
| MIX CHOICES: | no |

|  |  |
| --- | --- |
| QN=4 | One of the fields on a form contains a text box which accepts alphabets in lower or upper case. Identify the invalid Equivalence class value. |
| a. | CLASS |
| b. | cLASS |
| c. | CLass |
| d. | CLa01ss |
| e. |  |
| f. |  |
| ANSWER: | D |
| MARK: | 1.0 |
| UNIT: | 1 |
| MIX CHOICES: | no |

|  |  |
| --- | --- |
| QN=5 | In a system designed to work out the tax to be paid: An employee has £4000 of salary tax free. The next £1500 is taxed at 10% The next £28000 is taxed at 22% Any further amount is taxed at 40% Which of these groups of numbers would fall into the same equivalence class? |
| a. | £4800; £14000; £28000 |
| b. | £5200; £5500; £28000 |
| c. | £28001; £32000; £35000 |
| d. | £5800; £28000; £32000 |
| e. |  |
| f. |  |
| ANSWER: | D |
| MARK: | 1.0 |
| UNIT: | 1 |
| MIX CHOICES: | no |

|  |  |
| --- | --- |
| QN=6 | Which of the following has highest level of independence in which test cases are |
| a. | Designed by persons who write the software under test |
| b. | Designed by a person from a different section |
| c. | Designed by a person from a different organization |
| d. | Designed by another person |
| e. |  |
| f. |  |
| ANSWER: | C |
| MARK: | 1.0 |
| UNIT: | 1 |
| MIX CHOICES: | no |

|  |  |
| --- | --- |
| QN=7 | We use the output of the requirement analysis, the requirement specification as the input for writing: |
| a. | User Acceptance Test Cases |
| b. | Integration Level Test Cases |
| c. | Unit Level Test Cases |
| d. | Program specifications |
| e. |  |
| f. |  |
| ANSWER: | A |
| MARK: | 1.0 |
| UNIT: | 1 |
| MIX CHOICES: | no |

|  |  |
| --- | --- |
| QN=8 | Validation involves which of the following i. Helps to check the Quality of the Built Product ii. Helps to check that we have built the right product. iii. Helps in developing the product iv. Monitoring tool wastage and obsoleteness. |
| a. | Options i,ii,iii,iv are true |
| b. | ii is true and i,iii,iv are false |
| c. | i,ii,iii are true and iv is false |
| d. | iii is true and i,ii,iv are false. |
| e. |  |
| f. |  |
| ANSWER: | B |
| MARK: | 1 |
| UNIT: | 1 |
| MIX CHOICES: | no |

|  |  |
| --- | --- |
| QN=9 | Which of the following uses Impact Analysis most? |
| a. | Component testing |
| b. | Non-functional system testing |
| c. | User acceptance testing |
| d. | Maintenance testing |
| e. |  |
| f. |  |
| ANSWER: | D |
| MARK: | 1 |
| UNIT: | 1 |
| MIX CHOICES: | no |

|  |  |
| --- | --- |
| QN=10 | Repeated Testing of an already tested program, after modification, to discover any defects introduced or uncovered as a result of the changes in the software being tested or in another related or unrelated software component: |
| a. | Re Testing |
| b. | Confirmation Testing |
| c. | Regression Testing |
| d. | Negative Testing |
| e. |  |
| f. |  |
| ANSWER: | C |
| MARK: | 1 |
| UNIT: | 1 |
| MIX CHOICES: | no |

|  |  |
| --- | --- |
| QN=11 | Impact Analysis helps to decide |
| a. | How much regression testing should be done |
| b. | Exit Criteria |
| c. | How many more test cases need to written |
| d. | Different Tools to perform Regression Testing |
| e. |  |
| f. |  |
| ANSWER: | A |
| MARK: | 1 |
| UNIT: | 1 |
| MIX CHOICES: | no |

|  |  |
| --- | --- |
| QN=12 | Functional system testing is: |
| a. | testing that the system functions with other systems |
| b. | testing that the components that comprise the system function together |
| c. | testing the end to end functionality of the system as a whole |
| d. | testing the system performs functions within specified response times |
| e. |  |
| f. |  |
| ANSWER: | C |
| MARK: | 1 |
| UNIT: | 1 |
| MIX CHOICES: | no |

|  |  |
| --- | --- |
| QN=13 | Peer Reviews are also called as: |
| a. | Inspection |
| b. | Walkthrough |
| c. | Technical Review |
| d. | Formal Review |
| e. |  |
| f. |  |
| ANSWER: | C |
| MARK: | 1 |
| UNIT: | 1 |
| MIX CHOICES: | no |

|  |  |
| --- | --- |
| QN=14 | Consider the following statements: i. 100% statement coverage guarantees 100% branch coverage. ii. 100% branch coverage guarantees 100% statement coverage. iii. 100% branch coverage guarantees 100% decision coverage. iv. 100% decision coverage guarantees 100% branch coverage. v. 100% statement coverage guarantees 100% decision coverage. |
| a. | ii is True; i, iii, iv & v are False |
| b. | i & v are True; ii, iii & iv are False |
| c. | ii & iii are True; i, iv & v are False |
| d. | ii, iii & iv are True; i & v are False |
| e. |  |
| f. |  |
| ANSWER: | D |
| MARK: | 1 |
| UNIT: | 1 |
| MIX CHOICES: | no |

|  |  |
| --- | --- |
| QN=15 | The Kick Off phase of a formal review includes the |
| a. | Explaining the objective |
| b. | Fixing defects found typically done by author |
| c. | Follow up |
| d. | Individual Meeting preparations |
| e. |  |
| f. |  |
| ANSWER: | A |
| MARK: | 1 |
| UNIT: | 1 |
| MIX CHOICES: | no |

|  |  |
| --- | --- |
| QN=16 | Match every stage of the software Development Life cycle with the Testing Life cycle:  i. Hi-level design a Unit tests ii. Code b Acceptance tests iii. Low-level design c System tests iv. Business requirements d Integration tests |
| a. | i-d , ii-a , iii-c , iv-b |
| b. | i-c , ii-d , iii-a , iv-b |
| c. | i-b , ii-a , iii-d , iv-c |
| d. | i-c , ii-a , iii-d , iv-b |
| e. |  |
| f. |  |
| ANSWER: | D |
| MARK: | 1 |
| UNIT: | 1 |
| MIX CHOICES: | no |

|  |  |
| --- | --- |
| QN=17 | Which of the following is not phase of the Fundamental Test Process? |
| a. | Test Planning and Control |
| b. | Test implementation and Execution |
| c. | Requirement Analysis |
| d. | Evaluating Exit criteria and reporting |
| e. |  |
| f. |  |
| ANSWER: | C |
| MARK: | 1 |
| UNIT: | 1 |
| MIX CHOICES: | no |

|  |  |
| --- | --- |
| QN=18 | Which of the following techniques is NOT a black box technique? |
| a. | State transition testing |
| b. | LCSAJ (Linear Code Sequence and Jump) |
| c. | syntax testing |
| d. | boundary value analysis |
| e. |  |
| f. |  |
| ANSWER: | B |
| MARK: | 1 |
| UNIT: | 1 |
| MIX CHOICES: | no |

|  |  |
| --- | --- |
| QN=19 | Success Factors for a review include:  i. Each Review does not have a predefined objective ii. Defects found are welcomed and expressed objectively iii. Management supports a good review process. iv. There is an emphasis on learning and process improvement. |
| a. | ii,iii,iv are correct and i is incorrect |
| b. | iii , i , iv is correct and ii is incorrect |
| c. | i , iii , iv , ii is in correct |
| d. | ii is correct |
| e. |  |
| f. |  |
| ANSWER: | A |
| MARK: | 1 |
| UNIT: | 1 |
| MIX CHOICES: | no |

|  |  |
| --- | --- |
| QN=20 | Defects discovered by static analysis tools include:  *i. Variables that are never used. ii. Security vulnerabilities. iii. Programming Standard Violations iv. Uncalled functions and procedures* |
| a. | i , ii,iii,iv is correct |
| b. | iii ,is correct I,,ii,iv are incorrect. |
| c. | i ,ii, iii and iv are incorrect |
| d. | iv, ii is correct |
| e. |  |
| f. |  |
| ANSWER: | A |
| MARK: | 1 |
| UNIT: | 11 |
| MIX CHOICES: | no |

|  |  |
| --- | --- |
| QN=21 | Test Conditions are derived from: |
| a. | Specifications |
| b. | Test Cases |
| c. | Test Data |
| d. | Test Design |
| e. |  |
| f. |  |
| ANSWER: | A |
| MARK: | 1 |
| UNIT: | 1 |
| MIX CHOICES: | no |

|  |  |
| --- | --- |
| QN=22 | Which of the following is true about White and Black Box Testing Technique: |
| a. | Equivalence partitioning, Decision Table and Control flow are White box Testing Techniques. |
| b. | Equivalence partitioning , Boundary Value Analysis , Data Flow are Black Box Testing Techniques |
| c. | Equivalence partitioning, State Transition, Use Case Testing are black box Testing Techniques. |
| d. | Equivalence Portioning , State Transition , Use Case Testing and Decision Table are White Box Testing Techniques |
| e. |  |
| f. |  |
| ANSWER: | C |
| MARK: | 1 |
| UNIT: | 1 |
| MIX CHOICES: | no |

|  |  |
| --- | --- |
| QN=23 | Regression testing should be performed:  i. every week ii. after the software has changed iii. as often as possible iv. when the environment has changed v. when the project manager says |
| a. | i & ii are true, iii, iv & v are false |
| b. | ii, iii & iv are true, i & v are false |
| c. | ii & iv are true, i, iii & v are false |
| d. | ii is true, i, iii, iv & v are false |
| e. |  |
| f. |  |
| ANSWER: | C |
| MARK: | 1 |
| UNIT: | 1 |
| MIX CHOICES: | no |

|  |  |
| --- | --- |
| QN=24 | Benefits of Independent Testing |
| a. | Independent testers are much more qualified than Developers |
| b. | Independent testers see other and different defects and are unbiased. |
| c. | Independent Testers cannot identify defects. |
| d. | Independent Testers can test better than developers |
| e. |  |
| f. |  |
| ANSWER: | B |
| MARK: | 1 |
| UNIT: | 1 |
| MIX CHOICES: | no |

|  |  |
| --- | --- |
| QN=25 | Minimum Tests Required for Statement Coverage and Branch Coverage :  Read P *Read Q* *If p+q > 100 then* *Print “Large”* *End if* *If p > 50 then* *Print “pLarge”* *End if* |
| a. | Statement coverage is 2, Branch Coverage is 2 |
| b. | Statement coverage is 3 and branch coverage is 2 |
| c. | Statement coverage is 1 and branch coverage is 2 |
| d. | Statement Coverage is 4 and Branch coverage is 2 |
| e. |  |
| f. |  |
| ANSWER: | C |
| MARK: | 1 |
| UNIT: | 1 |
| MIX CHOICES: | no |

|  |  |
| --- | --- |
| QN=26 | Minimum Test Required for Statement Coverage:  *Disc = 0* *Order-qty = 0* *Read Order-qty* *If Order-qty >=20 then* *Disc = 0.05* *If Order-qty >=100 then* *Disc =0.1* *End if*  *End if* |
| a. | Statement coverage is 4 |
| b. | Statement coverage is 1 |
| c. | Statement coverage is 3 |
| d. | Statement Coverage is 2 |
| e. |  |
| f. |  |
| ANSWER: | B |
| MARK: | 1 |
| UNIT: | 1 |
| MIX CHOICES: | no |

|  |  |
| --- | --- |
| QN=27 | The structure of an incident report is covered in the Standard for Software Test Documentation IEEE 829 and is called as: |
| a. | Anomaly Report |
| b. | Defect Report |
| c. | Test Defect Report |
| d. | Test Incident Report |
| e. |  |
| f. |  |
| ANSWER: | D |
| MARK: | 1 |
| UNIT: | 1 |
| MIX CHOICES: | no |

|  |  |
| --- | --- |
| QN=28 | Which of the following is the task of a Test Lead / Leader  *i. Interaction with the Test Tool Vendor to identify best ways to leverage test tool on the project. ii. Write Test Summary Reports based on the information gathered during testing iii. Decide what should be automated, to what degree and how. iv. Create the Test Specifications* |
| a. | i, ii, iii is true and iv is false |
| b. | ii,iii,iv is true and i is false |
| c. | i is true and ii,iii,iv are false |
| d. | iii and iv is correct and i and ii are incorrect |
| e. |  |
| f. |  |
| ANSWER: | A |
| MARK: | 1 |
| UNIT: | 1 |
| MIX CHOICES: | no |

|  |  |
| --- | --- |
| QN=29 | Features of White Box Testing Technique:   1. *We use explicit knowledge of the internal workings of the item being tested to select the test data.* 2. *Uses specific knowledge of programming code to examine outputs and assumes that the tester knows the path of logic in a unit or a program.* 3. *Checking for the performance of the application* 4. *Also checks for functionality* |
| a. | i, ii are true and iii and iv are false |
| b. | iii is true and i,ii, iv are false |
| c. | ii ,iii is true and i,iv is false |
| d. | iii and iv are true and i,ii are false |
| e. |  |
| f. |  |
| ANSWER: | A |
| MARK: | 1 |
| UNIT: | 1 |
| MIX CHOICES: | no |

|  |  |
| --- | --- |
| QN=30 | Which of the following is a part of Test Closure Activities?  *i. Checking which planned deliverables have been delivered ii. Defect report analysis. iii. Finalizing and archiving testware. iv. Analyzing lessons.* |
| a. | i , ii , iv are true and iii is false |
| b. | i , ii , iii are true and iv is false |
| c. | i , iii , iv are true and ii is false |
| d. | All of above are true |
| e. |  |
| f. |  |
| ANSWER: | C |
| MARK: | 1 |
| UNIT: | 1 |
| MIX CHOICES: | no |

Note: image file should be saved in the same folder with the question file.

MIX CHOICES: The choices will be mixed when displays to student.